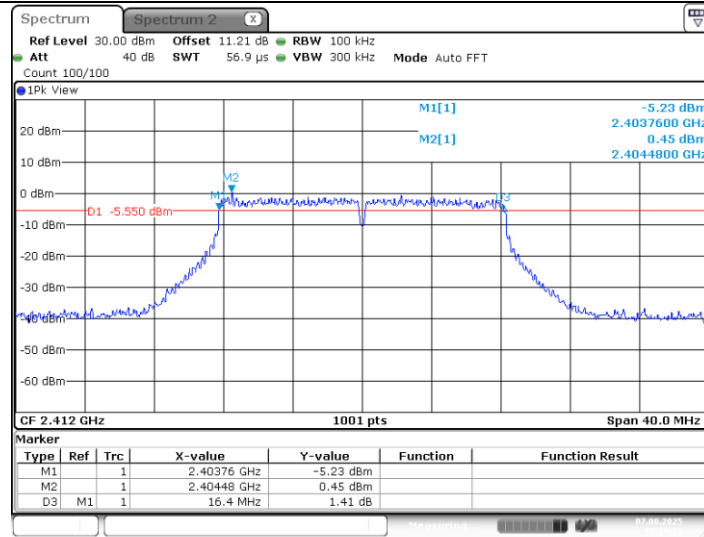
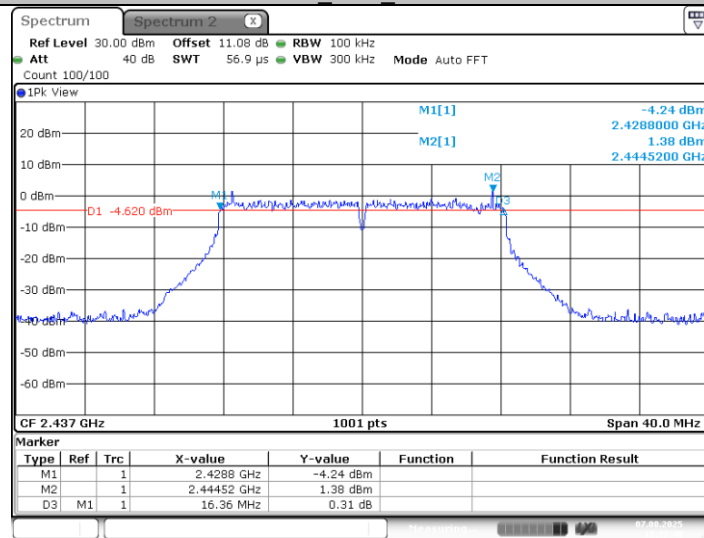
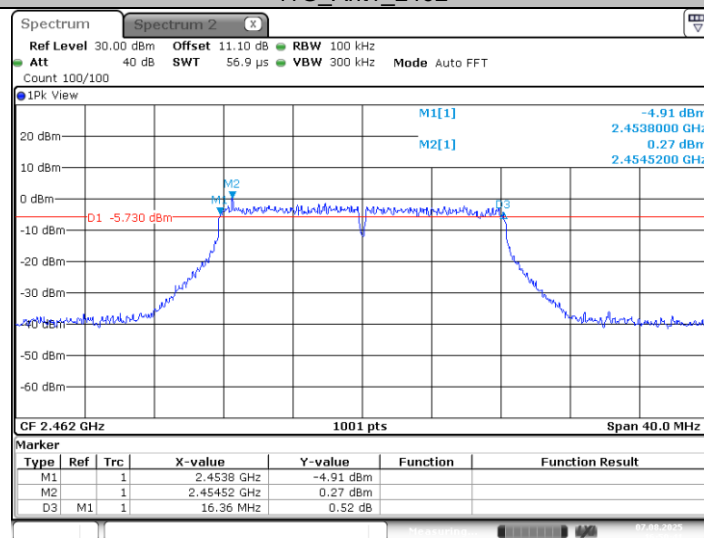




11G_Ant1_2437



11G_Ant1_2462



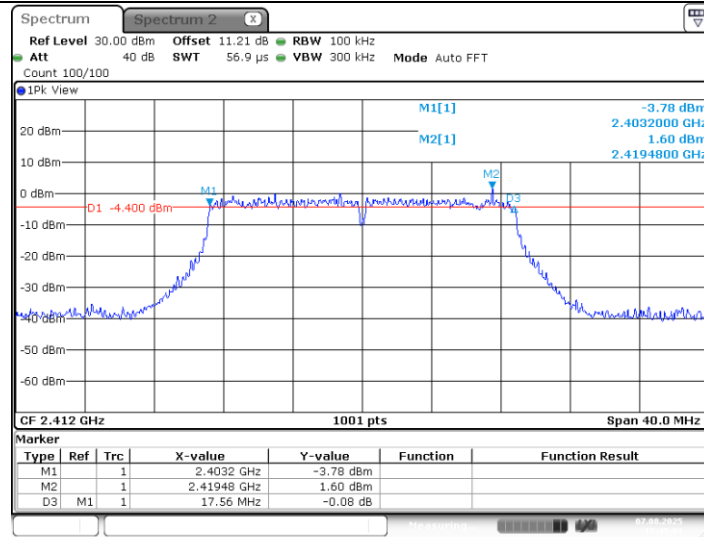
11N20SISO_Ant1_2412

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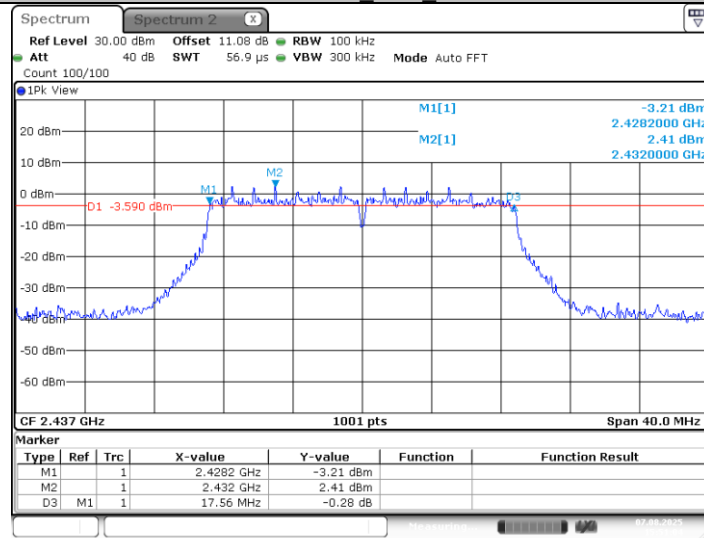
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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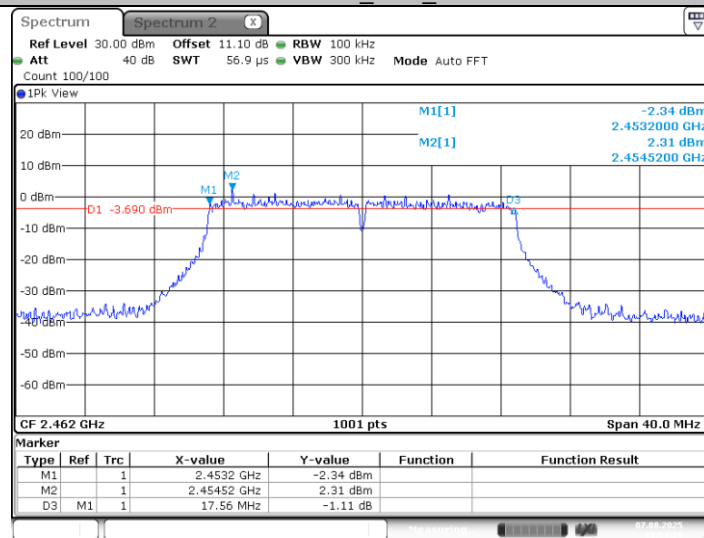
TRF No: CTC-TR-057_A2



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



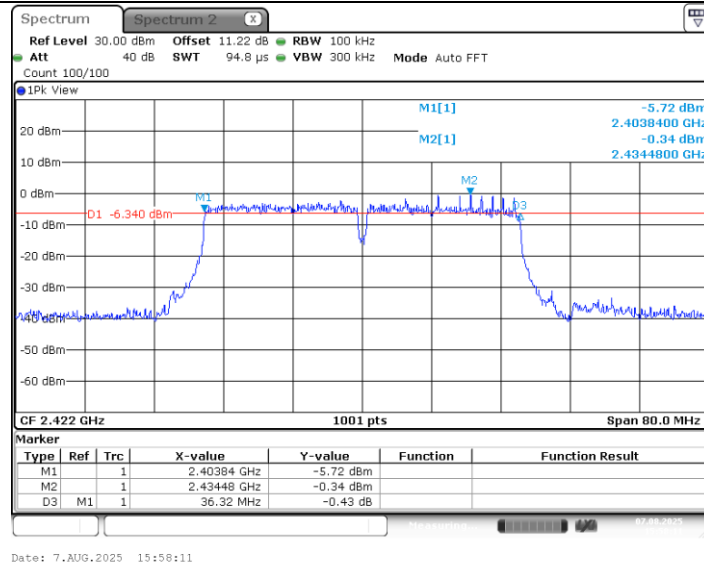
11N40SISO_Ant1_2422

CTC Laboratories, Inc.

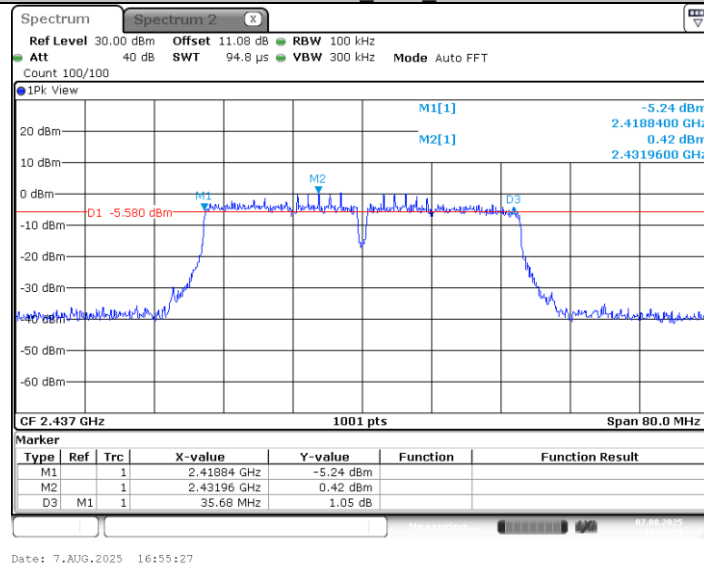
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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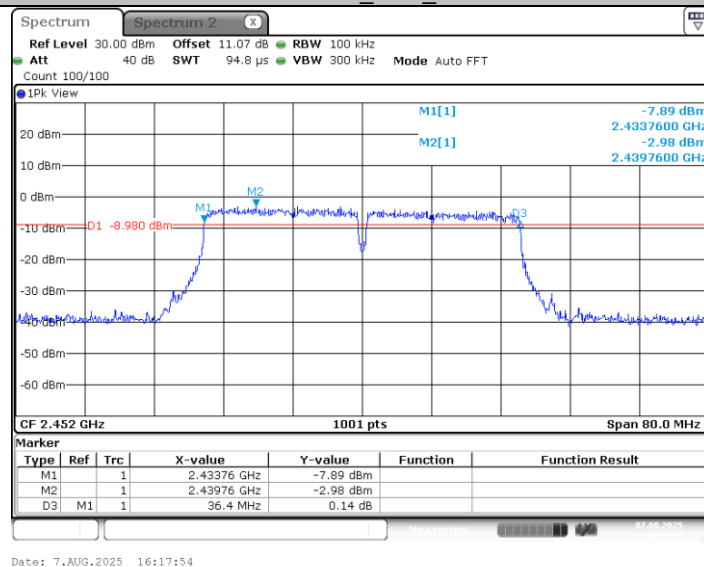
TRF No: CTC-TR-057_A2



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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TRF No: CTC-TR-057_A2



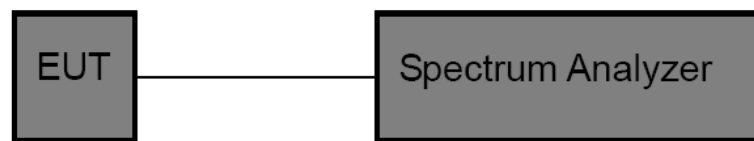
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Set RBW > 20dB Bandwidth.
 - (2) Set VBW ≥ RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
 - (6) Span = Approximately five times the 20dB bandwidth, centered on a hopping channel.

Test Mode

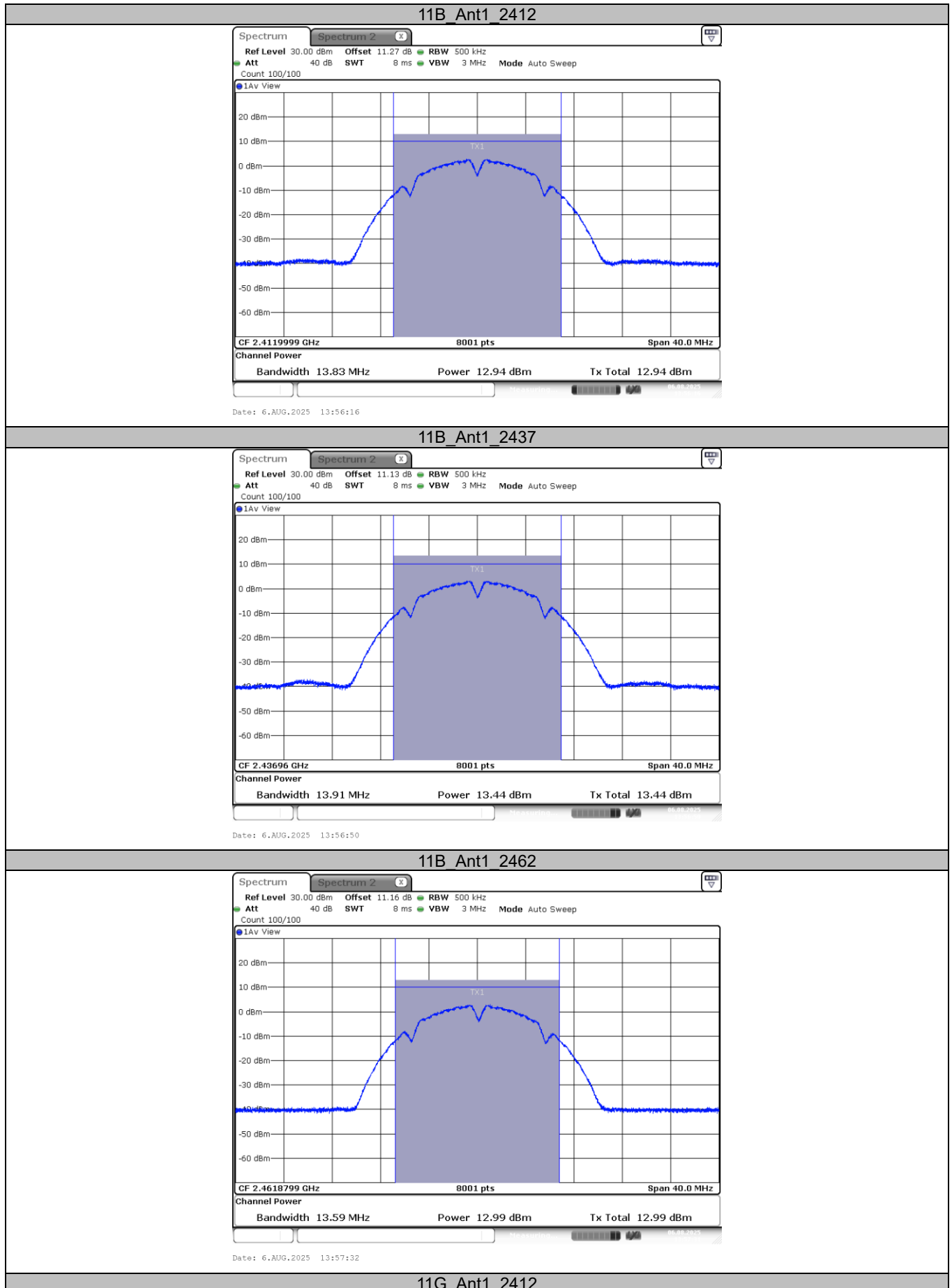
Please refer to the clause 2.4.

**Test Result**

Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	FCC Limit (dBm)	ISED Limit (dBm)	Verdict
802.11b	2412	12.94	1.86	14.80	≤30	≤36	Pass
	2437	13.44	1.86	15.30	≤30	≤36	Pass
	2462	12.99	1.86	14.85	≤30	≤36	Pass
802.11g	2412	12.67	1.86	14.53	≤30	≤36	Pass
	2437	12.85	1.86	14.71	≤30	≤36	Pass
	2462	12.42	1.86	14.28	≤30	≤36	Pass
802.11n(HT20)	2412	12.64	1.86	14.50	≤30	≤36	Pass
	2437	12.89	1.86	14.75	≤30	≤36	Pass
	2462	13.12	1.86	14.98	≤30	≤36	Pass
802.11n(HT40)	2422	12.93	1.86	14.79	≤30	≤36	Pass
	2437	13.38	1.86	15.24	≤30	≤36	Pass
	2452	13.38	1.86	15.24	≤30	≤36	Pass



Test plot as follows:

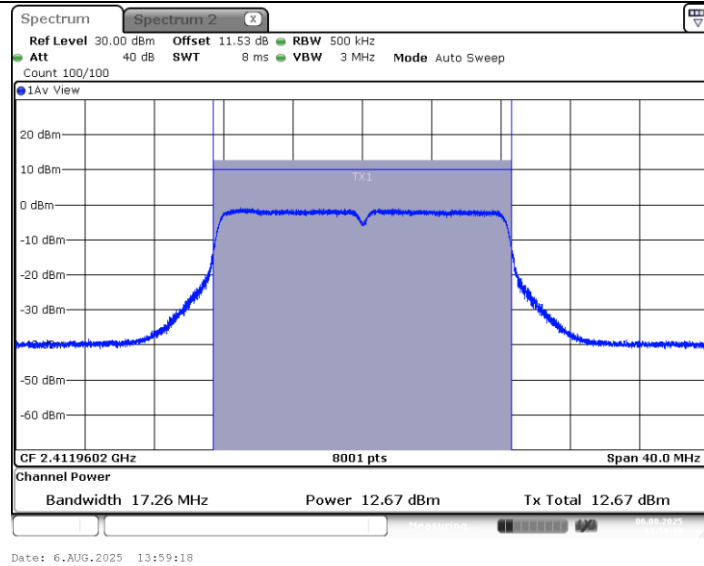


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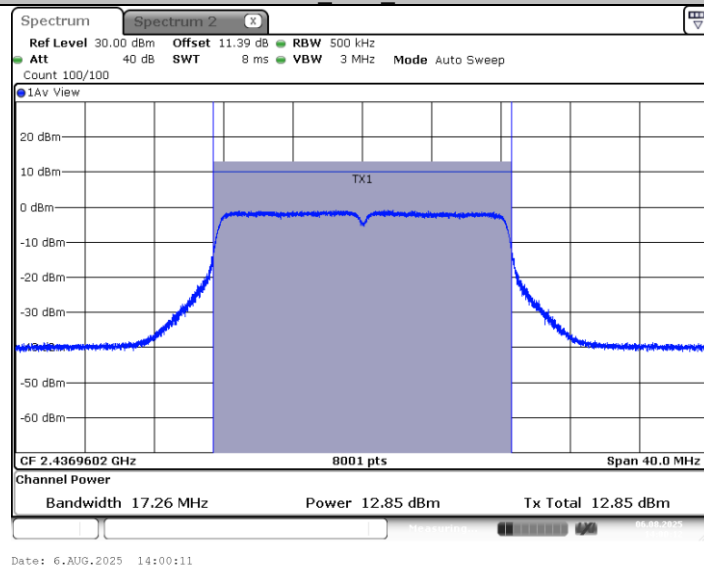
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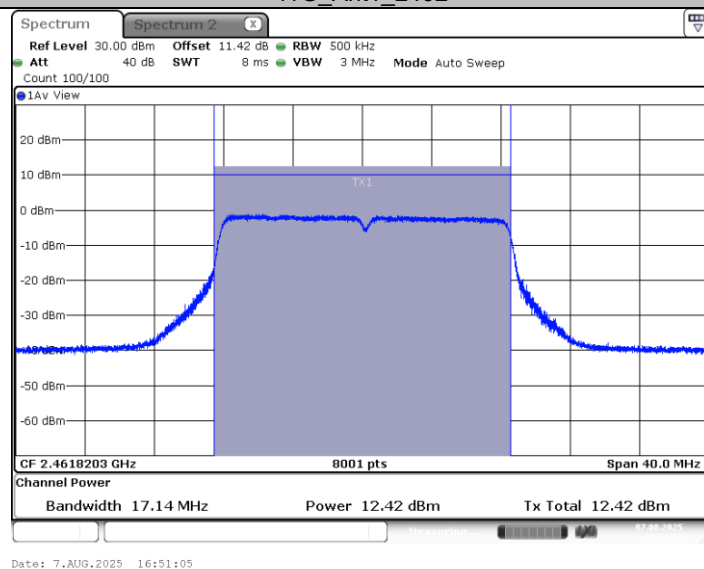
TRF No: CTC-TR-057_A2



11G_Ant1_2437



11G_Ant1_2462



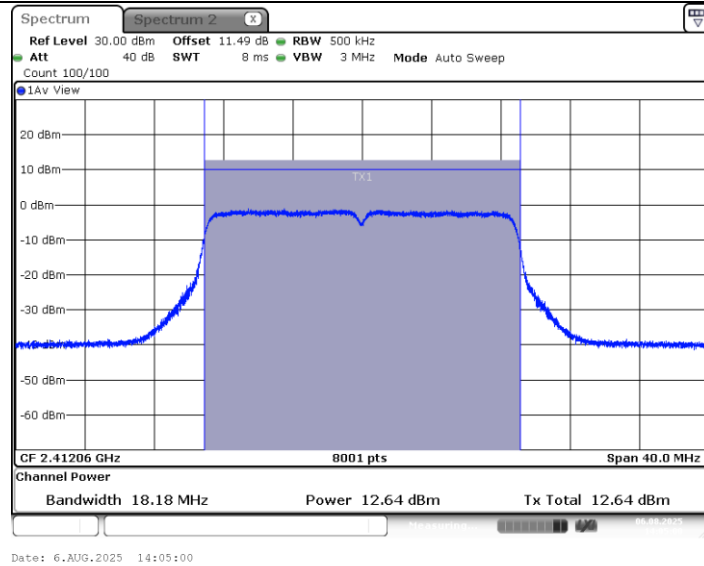
11N20SISO_Ant1_2412

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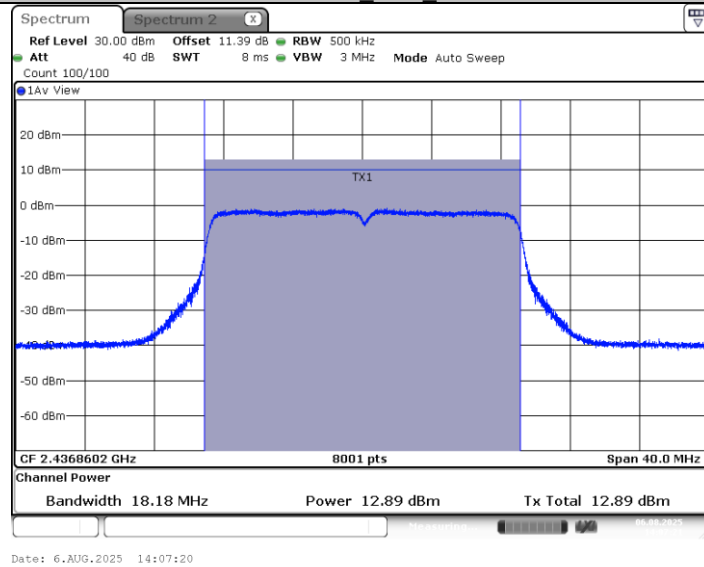
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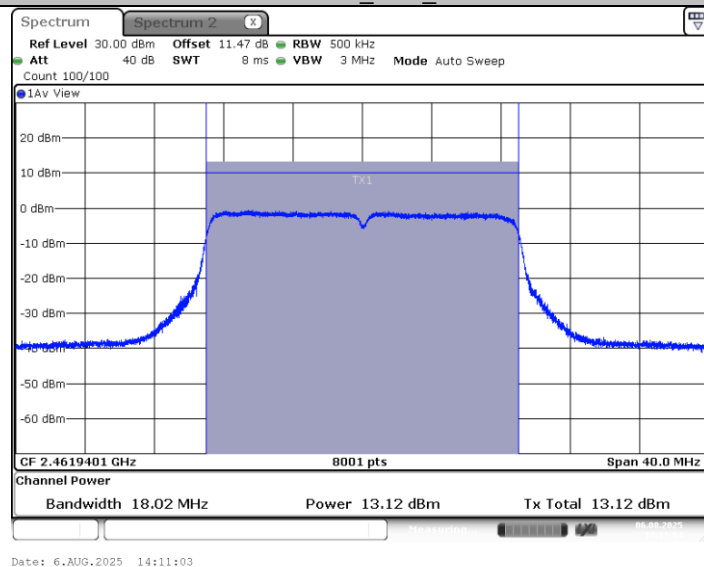
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



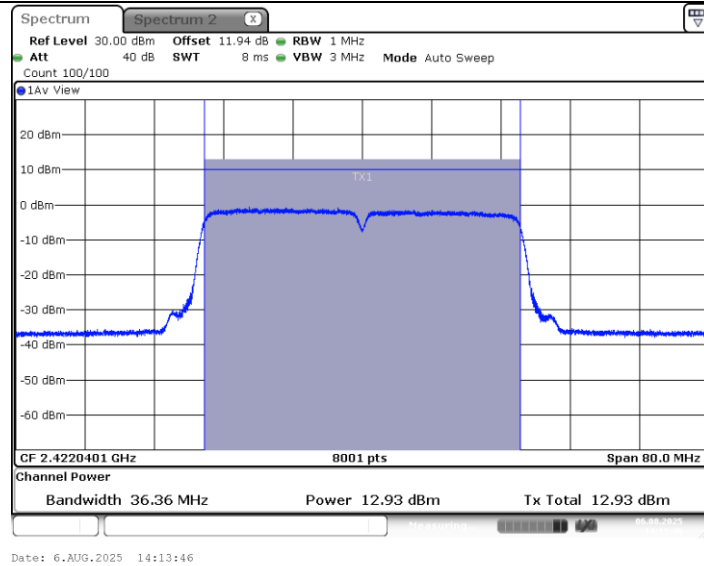
11N40SISO_Ant1_2422

CTC Laboratories, Inc.

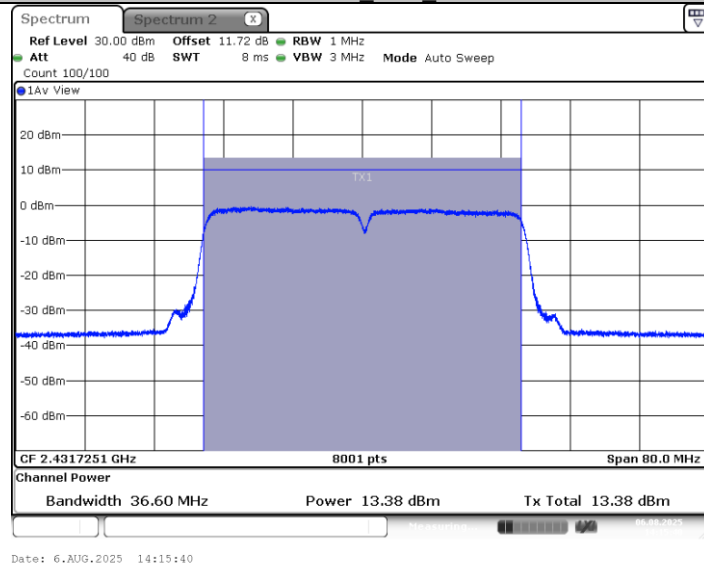
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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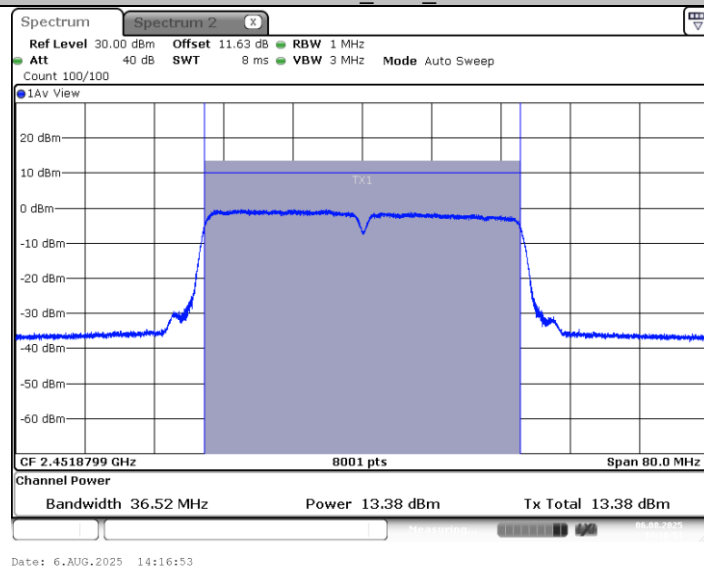
TRF No: CTC-TR-057_A2



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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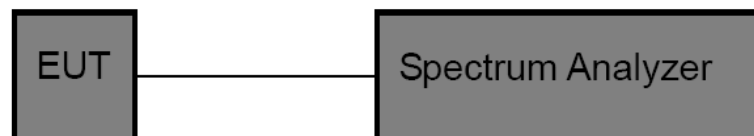
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-12.09	≤ 8	Pass
	2437	-11.57	≤ 8	Pass
	2462	-12.78	≤ 8	Pass
802.11g	2412	-14.45	≤ 8	Pass
	2437	-14.37	≤ 8	Pass
	2462	-15.52	≤ 8	Pass
802.11n(HT20)	2412	-14.76	≤ 8	Pass
	2437	-14.32	≤ 8	Pass
	2462	-14.25	≤ 8	Pass
802.11n(HT40)	2422	-15.08	≤ 8	Pass
	2437	-14.76	≤ 8	Pass
	2452	-15.83	≤ 8	Pass

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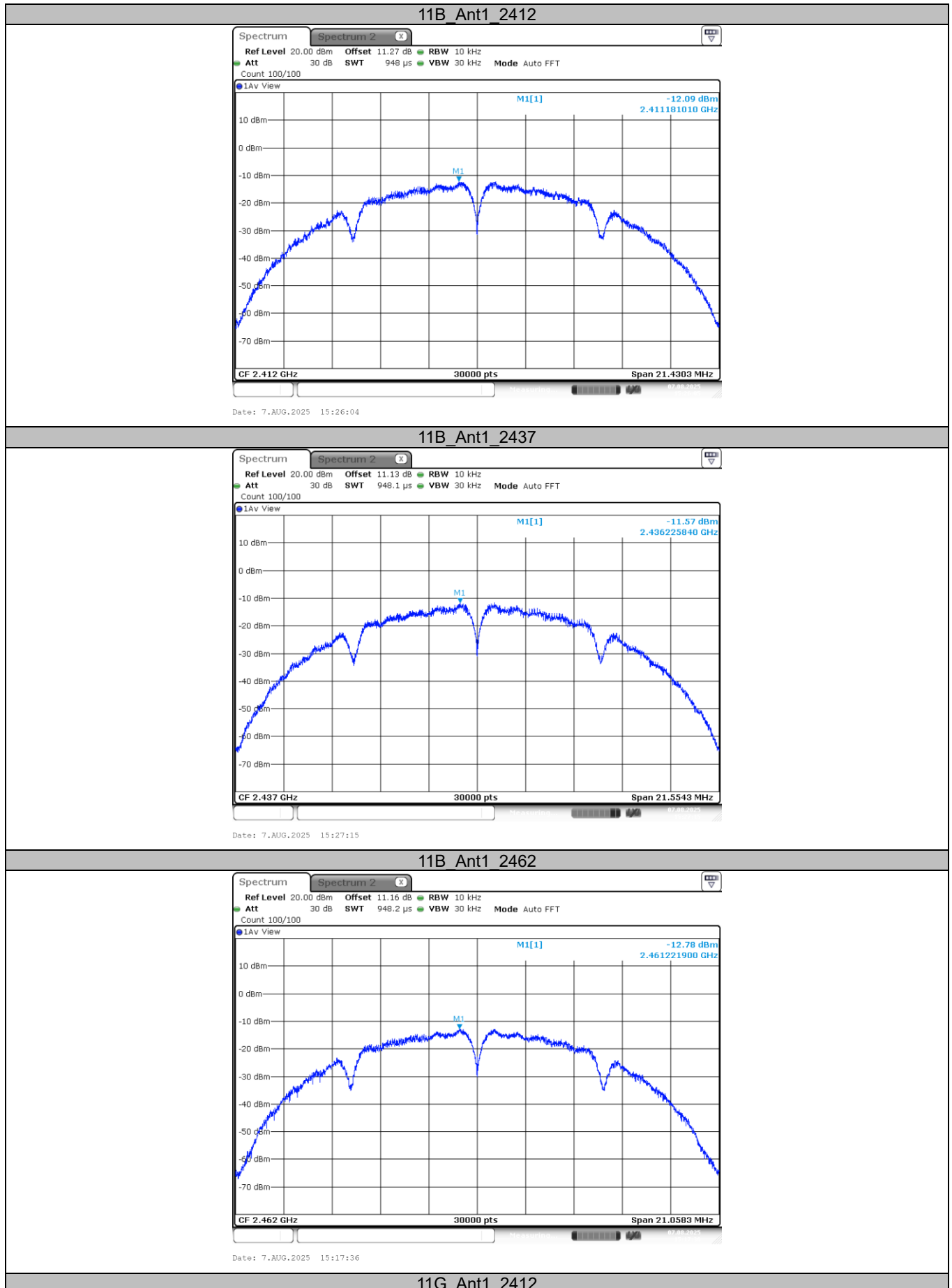
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Test plot as follows:

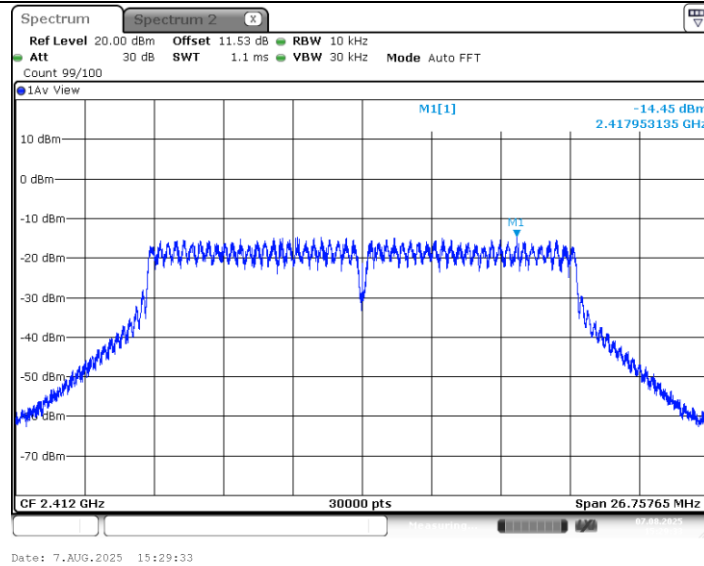


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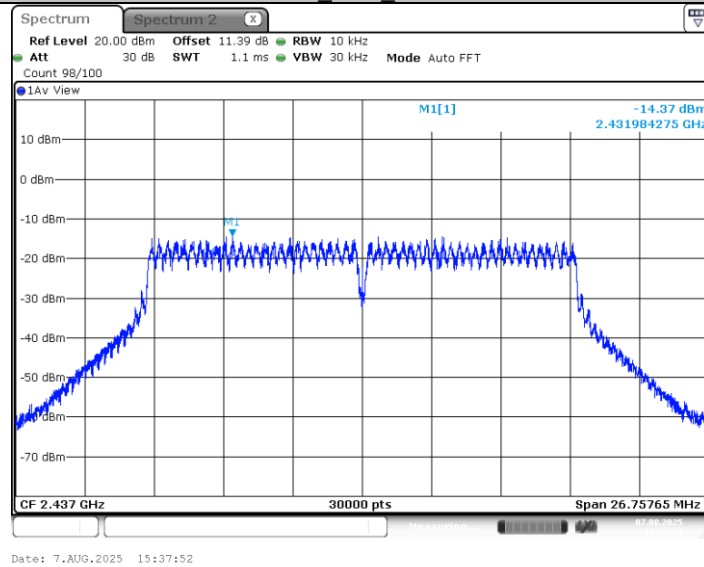
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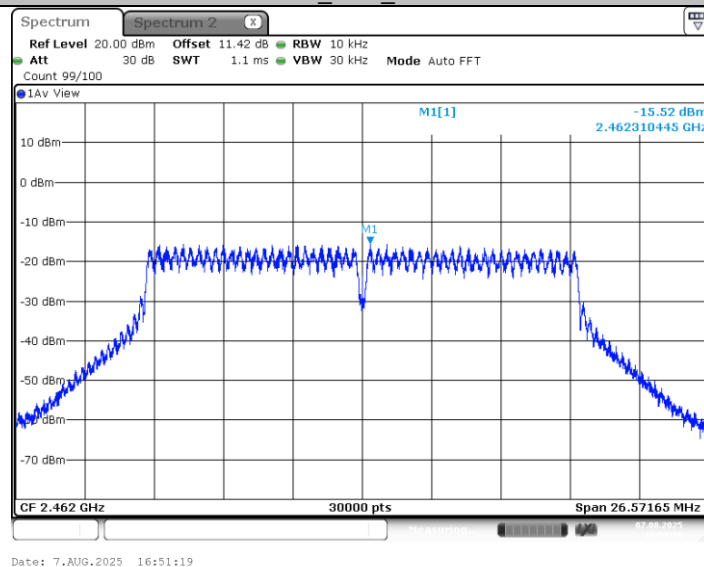
TRF No: CTC-TR-057_A2



11G_Ant1_2437



11G_Ant1_2462



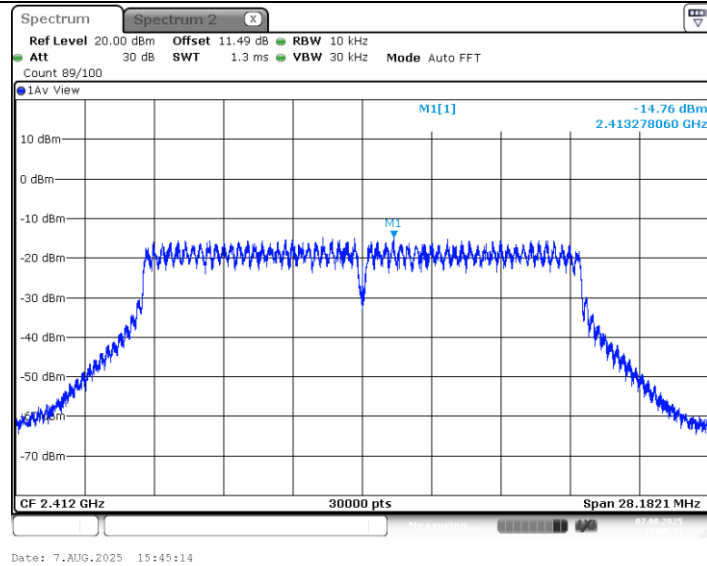
11N20SISO_Ant1_2412

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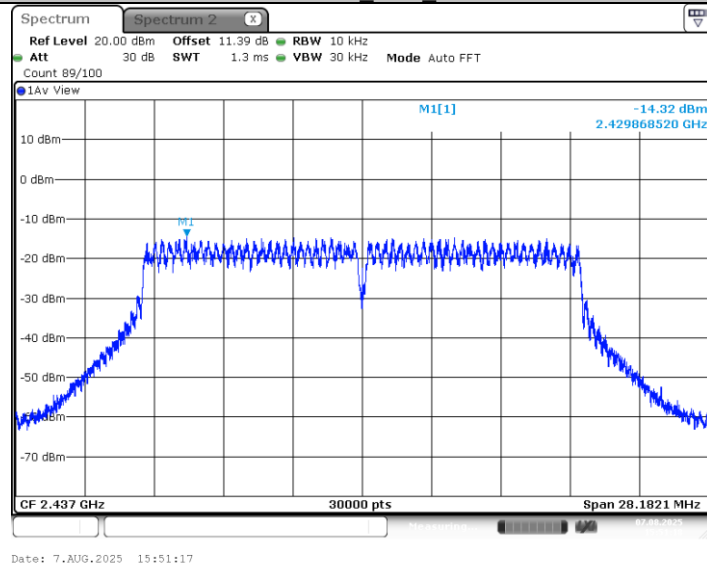
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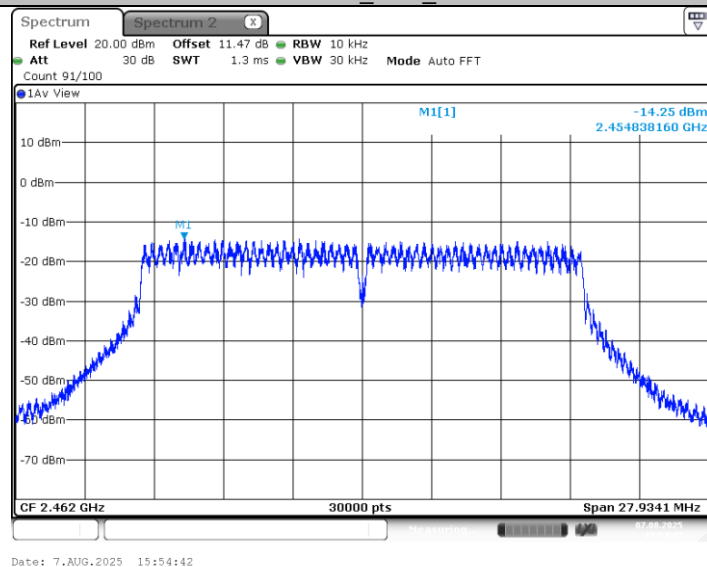
TRF No: CTC-TR-057_A2



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

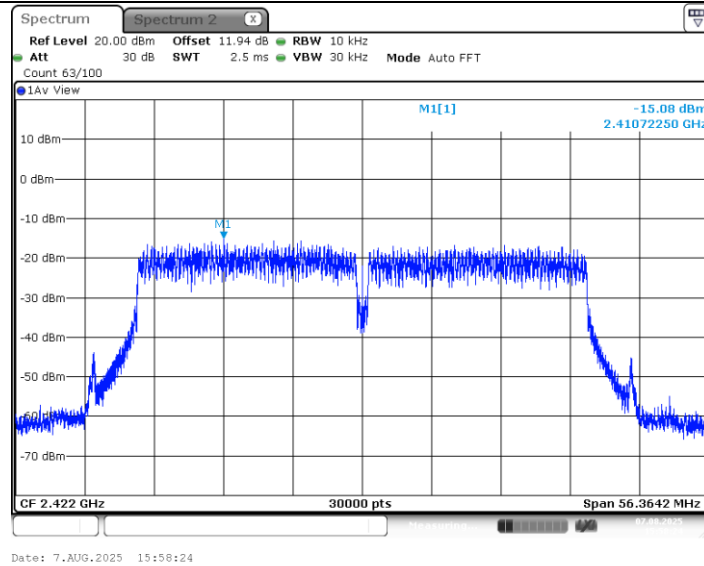
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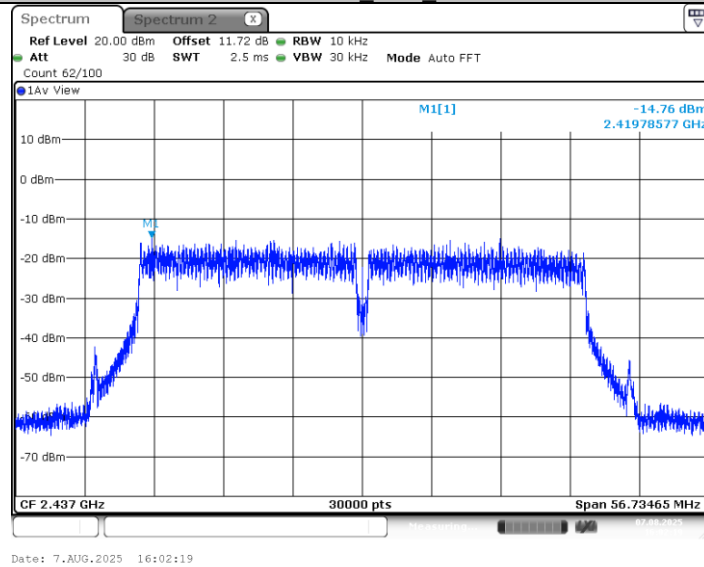
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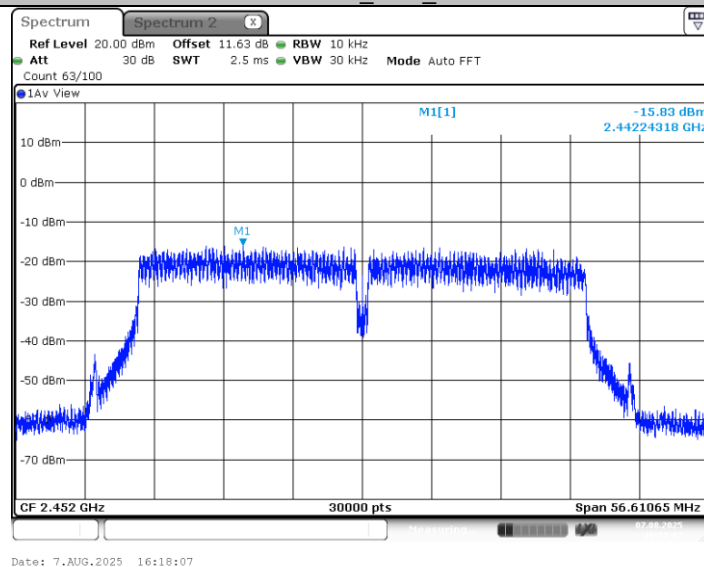
TRF No: CTC-TR-057_A2



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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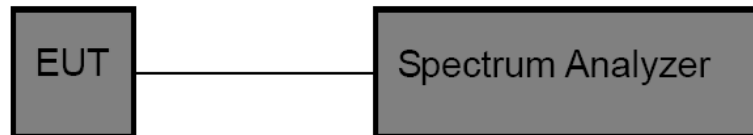


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Frequency (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
802.11b	2412	12.42	12.59	98.65	1.01	2
	2437	12.42	12.56	98.89	1.01	2
	2462	12.42	12.59	98.65	1.01	2
802.11g	2412	2.07	2.23	92.83	1.08	2
	2437	2.06	2.21	93.21	1.07	2
	2462	2.06	2.22	92.79	1.08	2
802.11n(HT20)	2412	1.92	2.05	93.66	1.07	2
	2437	1.92	2.06	93.20	1.07	2
	2462	1.92	2.09	91.87	1.09	2
802.11n(HT40)	2422	0.95	1.12	84.82	1.18	2
	2437	0.94	1.09	86.24	1.16	2
	2452	0.95	1.08	87.96	1.14	2

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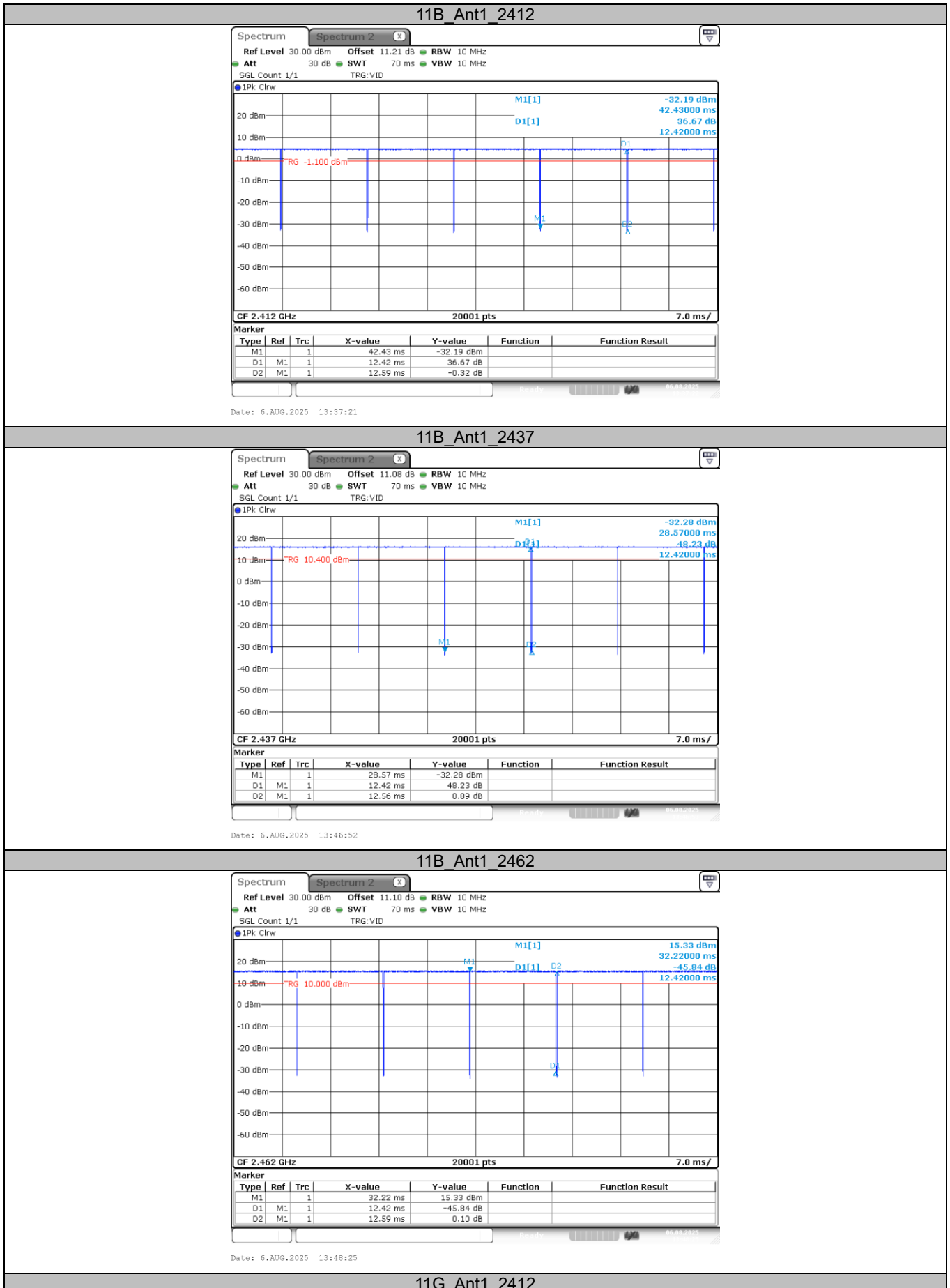
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Test plot as follows:



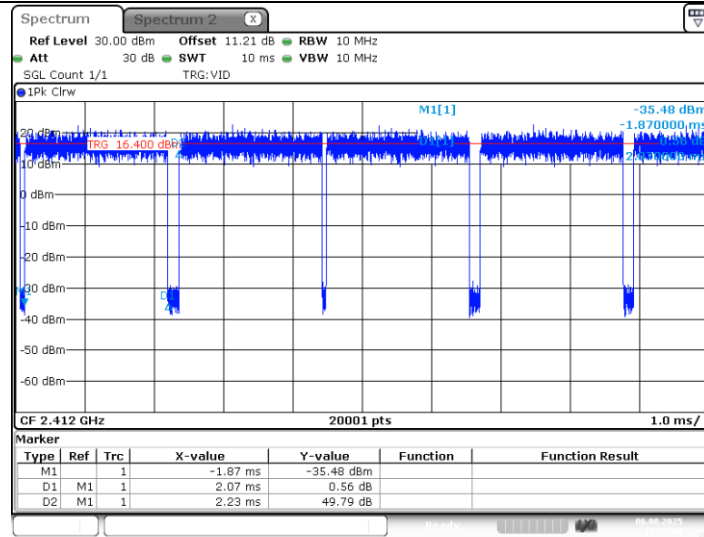
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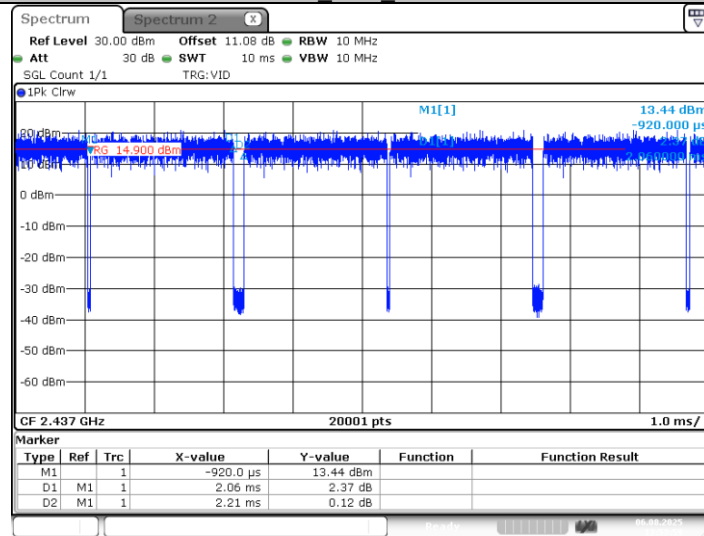
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Society : [yz.cncaq.com](http://www.cncaq.com)



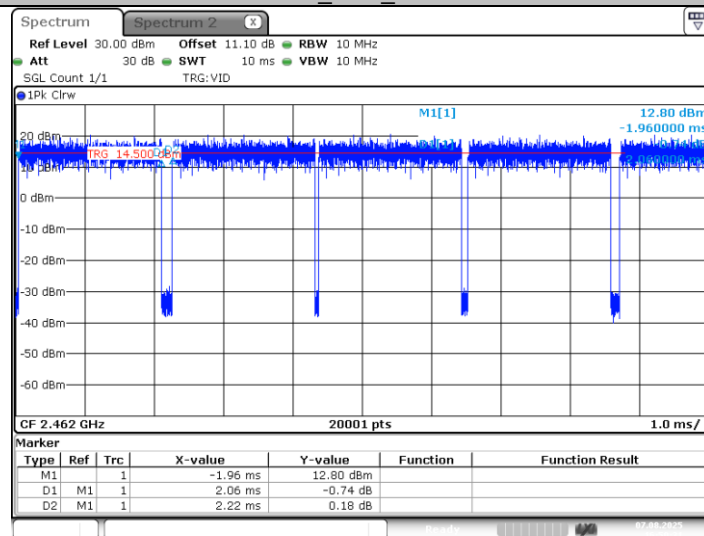
Date: 6.AUG.2025 13:52:00

11G_Ant1_2437



Date: 6.AUG.2025 13:53:59

11G_Ant1_2462



Date: 7.AUG.2025 16:50:30

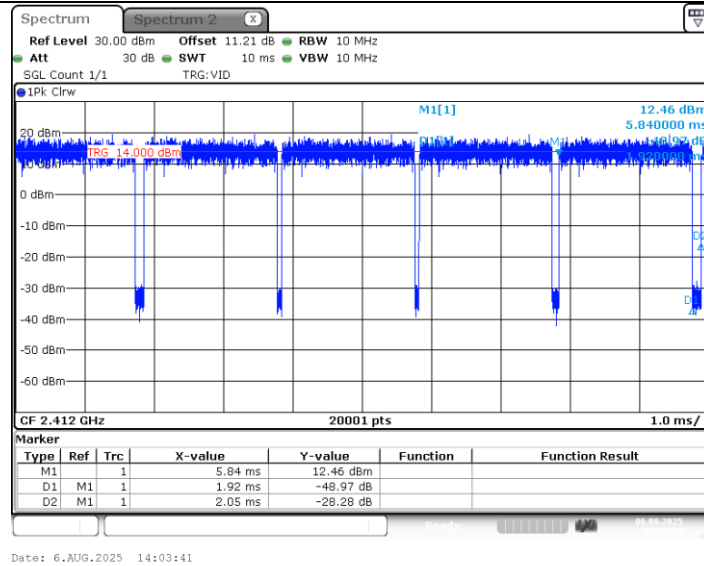
11N20SISO_Ant1_2412

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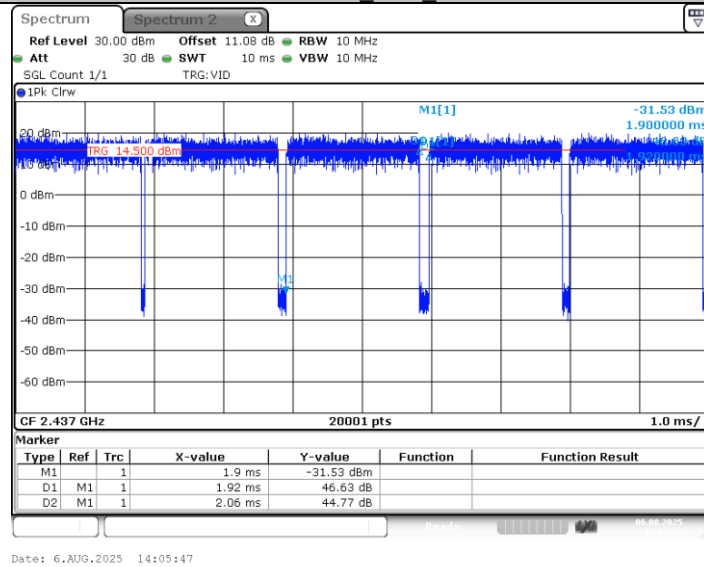
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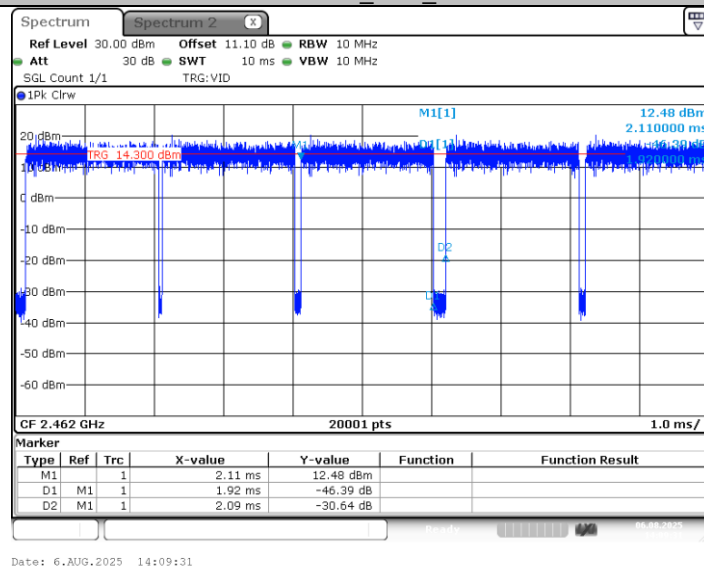
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

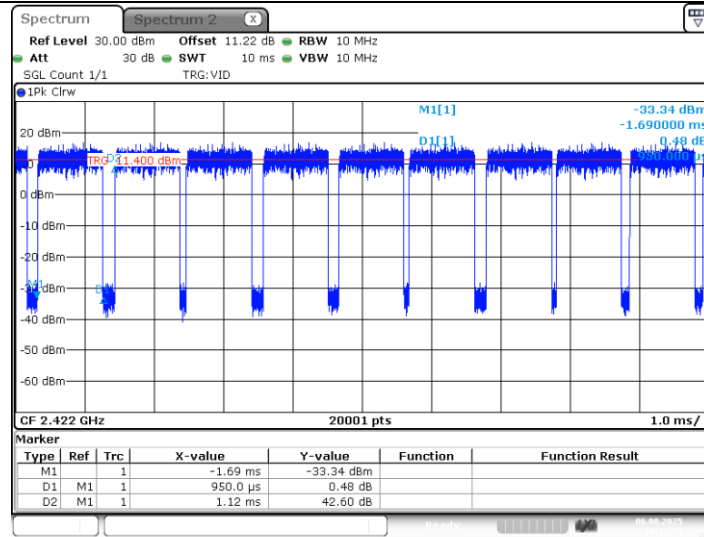
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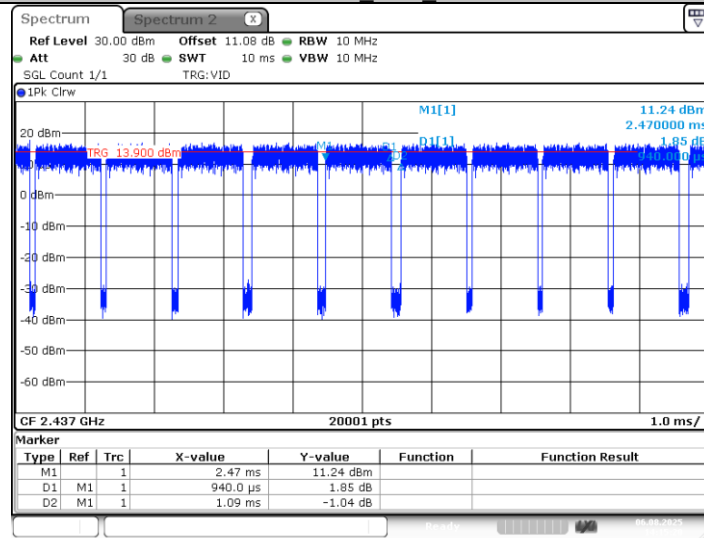
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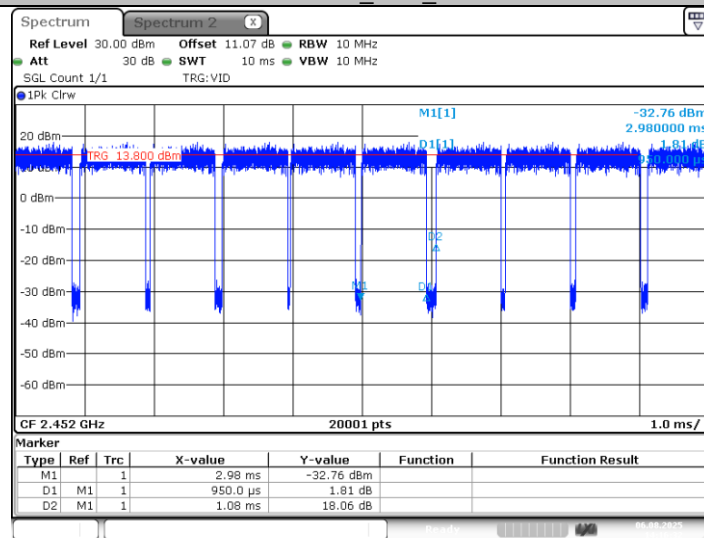
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3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

RSS-Gen Issue 5 Section 6.8

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power(e.i.r.p.) limits specified in the applicable standard (RSS) for licence-exempt apparatus.

Result

PASS.

The EUT has 1 antenna: a FPC Antenna for WIFI.

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.

☐ Not using a standard antenna jack or electrical connector for antenna replacement.

☐ The antenna has to be professionally installed (please provide method of installation).

Which in accordance to RSS-Gen 6.8, please refer to the internal photos.

*****THE END OF REPORT*****